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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,976	08/07/2003	Richard E. Smalley	11321-P012USD14	1272
759	07/13/2005		EXAMINER	
Ross Spencer Garsson			HENDRICKSON, STUART L	
Winstead Sechre	est & Minick P.C.			
P.O. Box 50784	·		. ART UNIT	PAPER NUMBER
1201 Main Street			1754	
Dallas, TX 75250-0784			DATE MAILED: 07/13/2009	_

Please find below and/or attached an Office communication concerning this application or proceeding.

	3N		(11/		
	Application No.	Applicant(s)			
Office Action Summan	10/635,976	SMALLEY ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAILING DATE of this communication a	Stuart Hendrickson	1754	Idra a		
Period for Reply	opears on the cover sheet t	with the correspondence ad	iaress		
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory perior  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a ply within the statutory minimum of the dwill apply and will expire SIX (6) MC te, cause the application to become a	a reply be timely filed  irty (30) days will be considered timel  DNTHS from the mailing date of this c  ABANDONED (35 U.S.C. § 133).			
Status	•				
1)⊠ Responsive to communication(s) filed on <u>5/2</u>	<u>′05</u> .				
2a)☐ This action is <b>FINAL</b> . 2b)☑ Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>163-171</u> is/are pending in the applic	ation.				
4a) Of the above claim(s) 168 and 169 is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>170 and 171</u> is/are allowed.					
6)⊠ Claim(s) <u>163-167</u> is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
8) Claim(s) are subject to restriction and	or election requirement.				
Application Papers					
9) The specification is objected to by the Examir	ier.				
	cepted or b) objected to				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
	-xammer. Note the attache	ed Office Action of form P	10-152.		
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreig</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> </ul>		§ 119(a)-(d) or (f).			
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a lis	t of the certified copies no	t received.			
•					
Attachmont(c)	•				
Attachment(s)  1) Notice of References Cited (PTO-892)	· 4\ \ Interview	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5)	Informal Patent Application (PTC	<b>)-152)</b>		
J.S. Patent and Trademark Office			<del></del>		
PTOL-326 (Rev. 1-04) Office A	Action Summary	Part of Paper No./Mail D	ate 07072005		

Application/Control Number: 10/635,976

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 164-167 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A) Claim 164 is unclear in what the nexus between oxidation and protrusion is.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 163-167 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rabinowitz.

The reference teaches in columns 17-18 a device having nanotubes aligned in a field. This differs in not requiring SWNTs, but these are suggested by the reference. Thus, using them is an obvious expedient to optimize the properties of the emitter.

As the tubes protrude, the ambient atmosphere is 'sufficient'. Note that claim 167 encompasses room temperature.

Claims 163-167 are rejected under 35 U.S.C. 102(a) as being anticipated by Kiang et al. article 'Structural ...'.

The reference treats SWNTs in an electron beam. This is taken to imply/require the presence of a field. As the 'oxidation' conditions merely encompass the atmosphere, the claims are met.

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Claim 170 is interpreted to require that the oxidation breaks the nanotubes, which is not taught or suggested by the above references.

Any inquiry concerning this communication should be directed to examiner Hendrickson at telephone number (571) 272-1351.

Stuart Hendrickson examiner Art Unit 1754